



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

INDEX TO VOLUME 40

New names and the final members of new combinations are in **bold face type**.

- Abama ossifraga*, 577
Abies Fraseri, 494; *subalpina*, 684
Abietites foliosus, 572
Acer, 588; *californicum*, 56; *californicum texanum*, 56; *carolinianum*, 605; *dasy-carpum*, 606; *fraxinifolium*, 55; *interior*, 56; *Kingii*, 56; *mexicanum*, 56; *Negundo*, 389; *platanoides*, 606; *Pseudo-platanus*, 606; *rubrum*, 605; *rubrum tridens*, 392; *saccharinum*, 606; *texanum*, 56
Aceraceae, 54, 605
Acerates amboyensis, 571, 573; *lanuginosa*, 466
Achillea Millefolium, 590
Achroanthos unifolia, 493
Acmispon, 45; **americanum**, 45; **elatum**, 46; *sericeum*, 45
Aconitum Napellus, 585
Acuan illinoense, 383
Adelia acuminata, 392
Adenophorus bipinnatus, 200; *hymenophylloides*, 199; *pinnatifidus*, 198; *tripinnatifida*, 200
Adenostegia, 484; *canescens*, 484; *capitata*, 484; *ciliosa*, 484
Adoxa Moschatellina, 589
Aecidium Berberidis, 503; *Rhamni*, 503
Aegilops ovata, 576
Aesculus octandra, 497
Afzelia, 122, 127; 401, 403, 404, 406; *cassiodores*, 122, 406, 407; *macrophylla*, 497; *pectinata*, 406
Agalinanae, a subtribe of the Rhinanthaceae, *Studies in the*, 119, 401
Agalinis, 125, 128, 401, 403, 405, 415; *aphylla*, 419, 434; *corymbosa*, 422; **decemloba**, 419, 434; **delicatula**, 417, 425; **divaricata**, 420, 437; *erecta*, 420, 435, 431; *fasciculata*, 417, 426; **filicaulis**, 420, 438; *filifolia*, 418, 429; **georgiana**, 417, 427; *Harperi*, 417, 426; **Holmiana**, 418, 429, 435; **laxa**, 419, 431, 435; *linifolia*, 415, 420; *longifolia*, 422; *maritima*, 415, 421; *microphylla*, 432, 433; *obtusifolia*, 436; **oligophylla**, 403, 419, 432; *palustris*, 125, 126, 128, 422; *parvifolia*, 436; *perennis*, 420; **pinetorum**, 417, 424, 425; *Plukenetii*, 431; **pulchella**, 418, 428; *purpurea*, 126, 416, 422; *setacea*, 419, 430, 431; **tenella**, 419, 434; *tenuifolia*, 420, 437; *virgata*, 417, 424
Agapanthus, 581
Agaricus campestris, 139
Alabama, *Contributions to the Mesozoic flora of the Atlantic coastal plain*, 567
Alchemilla, 587
Aletes, 68, 69, 71; *MacDougali*, 68; *tenuifolia*, 69
Alismaceae, 576
Allantodia scandicinium, 221
Allium, 555, 558, 578; *Cepa*, 555; *cernuum*, 555-557, 559, 560
Alnus rugosa, 387, 394
Alstroemeria, 582
Althaea rosea, 608
Alyssum, 586
Amanita muscaria, 167; *pantherina*, 167
Amarella, 464; *arctophila*, 464; *propinqua*, 464; **tortuosa**, 463; **ventorum**, 463
Ambrosia artemisiaefolia, 383, 393, 387; *bidentata*, 383, 384; *trifida*, 383
Amelanchier nantucketense, 613
Ammiaceae, 66
Ampelopsis cordata, 390
Amphoradenium Gaudichaudii, 200; *minimum*, 199
Amsinckia hispidissima, 481; *micrantha*, 481; *retrorsa*, 481
Amsonia brevifolia, 465; **Eastwoodiana**, 465; *Fremontii*, 465; *texana*, 465; *tomentosa*, 465
Anchusa officinalis, 481
ANDREWS, F. M. & ELLIS, M. M. *Some observations concerning the relations of the leaf hairs of Salvinia natans*, 441
Andromeda grandifolia, 569, 570-572; *latifolia*, 569; *Novae-Caesareae*, 569, 570-572; *Parlatorii*, 569-572; *Wardiana*, 571
Andropogon scoparius, 383; *virginicus*, 495, 496
Androsace **albertina**, 462; *capillaris*, 463; *carinata*, 462; *Chamaejasme*, 462; *filiformis*, 463; *occidentalis*, 463; **simplex**, 462
Anemone canadensis, 497, 498
Angiospermae, 576
Angiosperms, *A bibliography of works on meiosis and somatic mitosis in the*, 575
Anoetangium cirrhosum, 674
Anogra leptophylla, 65
Anonymos, 122; *cassiodores*, 122, 127, 407;

- erecta, 435; flava, 409; pedicularia, 412; purpurea, 422; setacea, 430
 Antennaria, 590; plantaginifolia, 390
 Anthemis, 590; Cotula, 383, 387, 393
 Anthericum, 581
 Anthopogon **Macounii**, 463; **tonsum**, 463; **ventricosum**, 463
 Anthurium, 233
 Antirrhinum Cooperi, 484; Kingii, 484
 Apocynaceae, 465
 Apocynum cannabinum, 383
 Araceae, 577
 Aragallus **Bigelovii**, 53; **plattensis**, 53
 Arales, 577
 Aralia, 573; cottondalensis, 569; spinosa, 496; Wellingtoniana, 569
 Arisaema triphyllum, 229, 232, 234, 577
 Arisaema triphyllum, The development of the embryo-sac of, 229
 Aristida dichotoma, 496
 Armillaria mellea, 167
 Aronia nigra, 493
 Arum maculatum, 577
 Aruncus Aruncus, 495
 Arundinaria macrosperma, 383, 390, 392; sp., 386
 Asclepiadaceae, 466
 Asclepias erosa, 466; labriformis, 466; macrosperma, 466; mexicana, 466; ovatifolia, 466; Sullivantii, 497; syriaca, 589; tuberosa, 383, 385, 387, 389; variegata, 496
 Ascyrum hypericoides, 608; multicaule, 496
 Asparagus officinalis, 582
 Asperugo procumbens, 481; tenellus, 481
 Asphodelus, 581
 Aspidium aculeatum Braunii, 203; apifolium, 205; aristatum coniifolium, 203; Boydiae, 204; caryotideum, 204; cicutarium, 205; curvifolium, 203; cyatheoides depauperatum, 204; haleakalense, 203; Hillebrandii, 204
 Asplenium, 206; acuminatum, 208, 216; Adiantum-nigrum, 208, 218; amoenum, 209; arboreum, 223; Arnottii, 223; Baldwinii, 222; bipinnatum, 218; brevissorum, 224; castaneum, 209; caudatum, 207, 213; contiguum, 207, 213; contiguum laciniatum, 214; cristatum, 217; cuneatum, 208, 217, 218; densum, 210, 211; deparioides, 221; Dicksonianum, 571; diplazioides, 223; dissectum, 219; emargino-dentatum, 209; enatum, 207, 212; erectum, 210, 216; erectum Macraei, 215; Fenzlianum, 223; flaccidum, 218; fragile 209; furcatum, 217; **glabratum**, 208, 214; **Goldmannii**, 208, 216; Hillebrandii, 207, 212; horridum, 208, 214; insitium, 208, 217, 218; insitium grandipinnatum, 217; insitium pseudonitidum, 217; **kauaiense**, 207, 212; Kaulfussii, 207, 212; Knudsenii, 220; leptophyllum, 210; lobulatum, 208, 211, 214, 217; lucidum, 212; lunulatum, 207, 210, 215, 216; Lydgatei, 208, 216, 218; Macraei, 208, 215, 216; Mannii, 212; Mannii kauaiense, 212; marginale, 223; meiotomum, 220; Menziesii, 210; monanthemum, 210; monanthes, 207, 210; montanum, 494, 495; Nidus, 206; nitidulum, 208, 213; normale, 211; obliquum, 212; obtusatum, 212; parallelum, 208, 218; patens, 208, 218; pavonicum, 207, 211; pellucidum, 220; pinnatifidum, 495; Poiretianum, 221; polyphyllum, 216; projectum, 209, 210; protensum, 212; pseudofalcatum, 207, 211; resectum, 209; **rhpidoneuron**, 208, 217; rhizophyllum, 215; rhomboideum, 207, 209; sandwichianum, 224; scandicium, 221; schizophyllum, 208, 219; spathulinum, 213; sphenotomum, 208, 219; stoloniferum, 209; strictum, 215; Trichomanes, 207, 210, 211; unilaterale, 207, 209; varians, 208, 215; vexans, 208, 219; viride, 209
 Astephanus utahensis, 466
 Aster divaricatus, 494; macrophyllus, 490, 493
 Astragalus ampullarius, 47; araneosus, 50; argillosus, 52; argophyllum, 49; arietinus, 48; arrectus, 49; arrectus scaphoides, 52; artemisiarum, 48; Arthuri, 51; atropubescens, 49; Beckwithii purpureus, 48; boiseanus, 50; calycosus, 50; cibarius, 48; collina, 53; confertiflorus, 52; consectus, 49; Coulteri, 50; crescenticarpus, 48; Cusickii, 47; cuspidocarpus, 48; cymboides, 49; debilis, 53; Dodgeanus, 52; episcopus, 53; eremiticus, 49; eriocarpus, 49; exilifolius, 52; Forwoodii, 51; glabriuscula, 51, 52; gracilis, 51; Grayi, 50; griseopubescens, 53; Haydenianus major, 51; Haydenianus nevadensis, 51; ibapense, 51; ineptus, 50; inflexus, 49; jejunus, 48; Kelseyi, 49; lancearius, 52; Leibergii, 49; lentiginosus, 50; leptaleus, 48; lingulatus, 52; miser, 52; Mulfordae, 51; multicaulis, 48; musiniensis, 49; palousiensis, 49; platytropis, 50; Preussii, 47; pubentissimus, 48; puniceus, 48; revertoides, 52; reventus, 52; sabulonum, 47; scobinatulus, 51; serpens, 47; sesquiflorus, 48; Sileranus, 47; simplicifolius, 52; strigosus, 53; subcinereus, 47; tegetarius, 52; utahensis, 49; vexilliflexus, 48; Wardii, 47; Watsonianus, 49; Zionis, 48
 Atelophragma, 52; aboriginum, 50, 51; **Arthuri**, 51; **Forwoodii**, 51; **glabriusculum**, 50, 51; **ibapense**, 51; **lineare**, 50

- Atenia, 67; Gairdneri, 67; **Garrettii**, 68; **montana**, 67
 Athyrium, 220, 222; Arnottii, 224; Baldwinii, 220, 222; deparioides, 220, 221; Poirertianum, 220-222; proliferum, 220, 221; sandwichianum, 224
 Aulospermum, 69, 70, 73; Betheli, 70; Jonesii, 70; purpureum, 70; Rosei, 70
 Aureolaria, 125, 126, 128, 401, 403, 404, 408; **dispersa**, 408, 411; glauca, 410; **pectinata**, 403, 409, 414; pectinata **floridana**, 409, 414; pedicularia, 125, 409, 412; pedicularia **caesariensis**, 409, 413; pedicularia **carolinensis**, 409, 413; reticulata, 408, 410; villosa, 125, 128, 408, 409, 411; **virginica**, 408, 409
 Auricularia Auricula-Judae, 164; mesenterica, 141, 164
 Auriculariopsis ampla, 165
 Azalea lutea, 495

 Bacillus subtilis, 637
 Balsamaceae, 606
 Barbula agraria, 659; linearis, 675; Raui, 659
 Bartramia macrocarpa, 658; macrotheca, 658; sphaerocarpa, 659
 Bauhinia cretacea, 571, 572; marylandica, 570-572
 Bellevalia romana, 579
 Berchemia scandens, 392
 BERRY, E. W. Contributions to the Mesozoic flora of the Atlantic coastal plain.—IX. Alabama, 567
 Beta, 584
 Betula lutea, 492, 493; nigra, 389, 496
 Bibliography of works on meiosis and somatic mitosis in the Angiosperms, A, 575
 BICKNELL, E. P. The ferns and flowering plants of Nantucket—XI, 605; Viola obliqua and other violets, 261
 Bidens, aristosa, 497; sp., 383
 Bignonia crucigera, 392; venusta, 589
 Blechnum, 225; Fontanesianum, 226; pallidum, 226; polystichoides, 227; Souleytianum, 225; squarrosum, 227
 Blephariglottis lacera, 492, 493; peramoena, 496
 Boisdualia **salicina**, 62
 Boleti, Studies in the cytology of the Hymenomycetes, especially the, 137
 Boletus albellus, 146, 154-156, 159, 160, 166, 174, 180, 181; alutarius, 156, 166; badius, 156, 160, 166; bicolor, 160, 166; castaneus, 146, 157, 159, 160, 166, 174, 179, 180; chrysenteron, 146, 156, 157, 160, 161, 174, 175, 179, 180; cyanes-cens, 157, 160, 166; flavus, 165; glabel-lus, 146, 152, 157, 160, 166, 174; granulatus, 146, 151-156, 160, 161, 166, 174, 179, 180; griseus, 157, 160, 161, 166, 175; indecisus, 146, 155, 160, 166; pallidus, 146, 152, 166; punctipes, 157, 160, 161, 166, 175; regius, 156, 166; scaber, 154, 166; spectabilis, 160, 166; subtomentosus, 157, 160, 166; vermicu-losus, 146, 152, 154, 157, 166, 174; versipellis, 146, 155, 157, 158, 166, 174, 180
 Boltonia asteroides, 383, 387
 Boraginaceae, 479
 Botanical cross-section of northern Miss-issippi with notes on the influence of soil on vegetation, A, 377
 Bovista plumbea, 140, 170
 Brachygyne, 124, 127
 Brachyphyllum macrocarpum formosum, 571, 573
 BRAINERD, E. Four hybrids of Viola pedatifida, 249
 Brassica, 586
 Brauneria purpurea, 497
 Breutelia macrotheca, 658; tomentosa, 658
 BRITTON, E. G. West Indian mosses—I, 653
 Brunnichia, 388; cirrhosa, 383, 387, 390, 392
 Bryonia, 590
 Bryum, 653; acuminatum, 659, 660; agrarium, 659; albidum, 653, 654; calcycinum, 661; lycopodioides, 660; nanum, 653; parasiticum, 655, 660; sphaericarpon, 659; tomentosum, 658
 Buchnera, 119
 Bursa, 586
 BUTLER, O. A note on the significance of sugar in the tubers of Solanum tuberosum, 110

 Caeoma nitens, 361-366
 Caeoma nitens Burrill, The production of a promycelium by the acidiospores of, 360
 Calendula, 586; officinalis, 590
 Callicostella depressa, 669
 Callirrhoe, 57
 Callisteris arizonica, 472; attenuata, 471; leucantha, 471
 Callitriche, 610
 Calocera cornea, 164; viscosa, 140, 164
 Calycanthus floridus, 585
 Calycites, 573
 Calymperes, 669; parasitica, 660; Rich-ardi, 660
 Camarophyllum virgineus, 167
 Campanula grandis, 590
 Camptosorus rhizophyllum, 641, 642, 644, 645
 Canna indica, 583
 Cannabis sativa, 584
 Cantharellus cibarius, 167; cinereus, 142, 167; infundibuliformis, 167; tubae-formis, 167

- Capnoides sempervirens*, 492, 493
Capnoea incana, 479; *nana*, 479; *nervosa*, 479; *Watsoniana*, 479
Capparites, 573
Capsella, 586
Cardamine rotundifolia, 495
Carduus, 383; *virginicus*, 496
Carex abdita, 531, 533, 549; *acuta*, 577; *aquatilis*, 577; **Brainerdii**, 532, 534; **brevicaulis**, 531, 533, 547; *brevipes*, 530, 532, 540; *costellata*, 494; *Cruscorvi*, 393; *deflexa*, 529, 530, 532, 538, 539, 541; *deflexa Boottii*, 540; *deflexa Deanei*, 538; *deflexa Farwellii*, 541; *deflexa media*, 541; *deflexa Rossii*, 541; *Farwellii*, 542; *floridana*, 529, 532, 537, 636; **geophila**, 530, 531, 533, 546; *globosa*, 532, 533, 541; *globosa brevipes*, 540; *heliophila*, 552; *lucorum floridana*, 537; *lucorum nigro-marginata*, 535; *lupulina*, 390; **microrhyncha**, 533, 548; *nigro-marginata*, 529, 532, 535; *nigro-marginata floridana*, 537; *nigro-marginata subdigyna*, 537; *Novae-Angliae*, 538; *Novae-Angliae deflexa*, 541; *Novae-Angliae Rossii*, 541; *pennsylvanica*, 552; *pilulifera deflexa*, 538; *pilulifera Novae-Angliae*, 540; **pityophila**, 532, 545; *Rossii*, 530, 532, 541; *Rossii brevipes*, 540; *tonsa*, 531, 533, 553; *triangularis*, 390; *umbellata*, 529-533, 549-552; *umbellata brevirostris*, 549, 531; *umbellata vicina*, 551; *varia*, 536, 539; *varia minor*, 538
Carex umbellata and its allies, 529
Carpinus caroliniana, 387, 389, 392
Carpolithus, 573; *floribundus*, 569, 571
Carum, 67; *Gairdneri*, 67; *Garrettii*, 68; *montanum*, 67
Case of bud variation in *Pelargonium*, A, 367
Cassia, 573; *nictitans*, 496
Castanea dentata, 387, 488, 494
Castilleja hispida, 485; **subcinerea**, 484
Casuarina, 583
Catabrosa aquatica, 686
Ceanothus americanus, 390
Cecalyphum calycinum, 661
Celastraceae, 605
Celastrophyllum, 573; *Brittonianum*, 571; *carolinense*, 572; *crenatum*, 569, 572; *decurrens*, 571; *grandifolium*, 571, 572; *Newberryanum*, 571; *undulatum*, 569, 572
Celastrus, 449; *scandens*, 605
Celtis, 383, 392
Centratherum chinense, 306
Cephalanthus occidentalis, 383, 386, 387, 390, 392
Ceratodon, 99; *purpureus*, 98-100, 106, 109
Ceratodon purpureus, Development of the peristome in, 97
Ceratophyllum submersum, 585
Cercis, 449; *canadensis*, 383, 385, 387, 389
Chaetochloa, 383
Chamaecrista fasciculata, 383
Chamaesyce exstipulata, 53; **Parryi**, 53
CHAMBERLAIN, E. B. Edward Lyman Morris, 599
Chamomilla, 590
Chenopodium, 3
Chimaphila maculata, 493
Chondrilla juncea, 590
Chrysanthae, 57
Chrysopsis Mariana, 496
Chrysosplenium americanum, 493
Chylisma tenuissima, 66
Chytia, 123
Cibotium proliferum, 221
Cicuta Curtissii, 383, 385, 387, 390
Cinnamomum intermedium, 569; *Newberryi*, 569, 570-572
Circaea alpina, 493
Cissites formosus, 570
Cistaceae, 613
Citrophylum aligerum, 571, 572
Citrus, 587
Cladophlebis, 573; *alabamensis*, 569; *parva*, 569
Claotrachelus, 306; *rupestris*, 306
Clastobryum americanum, 671; *indicum*, 671; *planulum*, 671; **trichophyllum**, 669, 672, 676
Clavaria grisea, 165; *rugosa*, 142, 165
vermicularis, 165
Claytonia virginica, 584
Clematis recta, 584
Clitocybe amethystina, 167; *aurantiaca*, 167
Clitopilus orcella, 167
Closterium, 79
Cnemidophacos argillosus, 52; **confertiflorus**, 52; **reventoides**, 52; **reventus**, 52
Cobaea scandens, 589
Cocculus, 573; *cinnamomeus*, 572
Coelastraceae, 84
Cogswellia leptophylla, 74; *platycarpa*, 74; *robustior*, 74; **simplex**, 74; *triternata*, 74
Coleosporium Senecionis, 502, 509
Collomia aristella, 475, 476; *inconspicua*, 476; *linearis subulata*, 475, 476; *tinctoria*, 475, 476; *tinctoria subulata*, 475
Collybia esculenta, 161; *radicata*, 144; *tuberosa*, 141, 167; *velutipes*, 146, 149, 161, 163, 167, 174
Colutea obovata, 571
Colysis Spectra, 202
Commelina hirtella, 390
Commelinaceae, 577
Coniophora cerebella, 146, 150, 165, 174

- Conocarpites, 573
 Conoclinium coelestinum, 383
 Conradia, 124, 128; fuchsioidea, 124, 128, 405; Lecontei, 405
 Contributions to the Mesozoic flora of the Atlantic coastal plain—IX. Alabama, 567
 Convallaria, 582
 Convallariaceae, 582
 Convolvulaceae, 466
 Conyza chinensis, 306; odorata, 306; patula, 306
 Coprinus ephemerus, 143, 151, 167; lagopus, 161; radiatus, 141, 167; stercorarius, 137, 150; tuberosus, 167
 Cordia apiculata, 569
 Corydalis cava, 585
 Cordylanthus, 484; bicolor, 484; ramosa, 484; Wrightii, 484
 Coriophyllus, 69; Betheli, 70; Jonesii, 70; purpureus, 70; Rosei, 70
 Cornophyllum vetustum, 571
 Cornus canadensis, 492; florida, 385, 387, 390; stolonifera, 498
 Corticium alutaceum, 138; amorphum, 139; effuscatum, 138; lacteum, 165; lilacino-fuscum, 143, 165; roseo-pallens, 138, 148; subgiganteum, 138; vagum, 138
 Cracca virginiana, 387, 390
 Crataegomespilus Asnieresii, 371
 Craterellus cornucopioides, 165; sinuosus, 140, 165
 Crepidotus, 143, 167
 Crepis, 590
 Cressa depressa, 466; erecta, 466
 Crinum, 449
 Cristaria coccinea, 58
 Crocanthemum canadense, 613–615; dumosum, 613–615; georgianum, 616; majus, 614–616; propinquum, 615, 616
 Croton capitatus, 383
 Crotonophyllum panduraeformis, 571
 Cryphaea filiformis, 657
 Cryptanthus ambigua, 481; calycosa, 481; flaccida, 481; flexuosa, 481; Hillmani, 481; muriculata montana, 481; recurvata, 481; Watsoni, 481
 Ctenophyllum Grayi, 50
 Cucurbita Pepo, 590
 Culture of cereal rusts in the greenhouse, The, 501
 Cunila origanoides, 496
 Cuscuta curta, 466; Gronovii curta, 466
 Cuscutaceae, 466
 Cyanopsis, 306; pubescens, 306; villosa, 306
 Cyanthillium, 306; chinense, 306; pubescens, 306; villosum, 306
 Cyathus hirsutus, 170
 Cycadinocarpus circularis, 569, 571
 Cyclodictyon albicans, 663
 Cymopterus, 69, 70; anisatus, 71; bipinnatus, 73; Jonesii, 70; nivalis, 70, 73; purpureus, 70
 Cynoglossum officinale, 481
 Cynomarathrum latilobum, 73; Nuttallii, 72, 73; Parryi, 73
 Cynontodium rufescens, 659; strictum, 659
 Cyperaceae, 577
 Cyperus pseudovegetus, 383, 387, 393
 Cyphella ciliata, 165; digitalis, 165
 Cypripedium acaule, 493; reginae, 493
 Cyrtomium, 204; Boydiae, 204; caryotideum, 204, 205
 Cystium, 51; araneosum, 50; boiseanum, 50; Coulteri, 50; ineptum, 50; lenticinosum, 50; platytropis, 50
 Cystopus, 501
 Czekanowskia capillaris, 569
 Dacryomyces chrysocomus, 141; deliquescent, 140, 141, 164
 Dactylococcus, 77
 Daedalea unicolor, 138
 Dalea parviflora, 51
 Dammara borealis, 571, 572
 Daphne, 588
 Dasanthera, 127
 Dasistoma, 123–127; aurea, 123, 126, 127; macrophylla, 123
 Dasiphora fruticosa, 498
 Dasystephana calycosa, 464; glauca, 464; monticola, 464; obtusiloba, 464; ore-gana, 464
 Dasystema bignoniiflora, 410; dispersa, 411; flava, 410; laevigata, 494; pectinata, 414; pedicularia, 412; pubescens, 411; quercifolia, 410; quercifolia intermedia, 411
 Daucophyllum, 68, 72; lineare, 69; tenuifolium, 69
 Daucus pusillus, 383, 387, 389, 393
 Decodon verticillatus, 609
 Dentaria heterophylla, 496
 Deparia Macraei, 221; triangularis, 221
 Dermatophyllites acutus, 571
 Development and behavior of the chromosome in the first or heterotypic mitosis of the pollen mother cells of Allium cernuum Roth, The, 555
 Development of the embryo-sac of Arisaema triphyllum, The, 229
 Development of the peristome in Cera-todon purpureus, 97
 Dewalquea groenlandica, 569; Smithi, 571, 573
 Dicksonia groenlandica, 571, 572; proliferifera, 221
 Dicranum asplenioides, 662; calycinum, 661; lycopodioides, 660; palmatum, 661; polypodioides, 661
 Dictamnus albus, 587

- Dictyolus bryophilus, 165; glaucus, 165
 Dictyophora duplicata, 143, 169
 Didymoglossum, 687
 Dieffenbachia Seguine, 232
 Diholcos **scobinatus**, 51
 Diodia teres, 390
 Dioscorea villosa, 390
 Diospyros amboyensis, 571; primaeva, 569, 571, 572; rotundifolia, 571; virginiana, 388, 392, 496
 Diplazium, 222; Arnottii, 223; Fenzlianum, 223; marginale, 222, 223; **molokaiense**, 223, 224; plantaginifolium, 222; sandwichianum, 223, 224
 Ditrichum rufescens, 659; tortile, 100
 Dodecatheon Jaffreyi, 463; Meadia, 497
 Doodia, 228; aspera, 228; Kunthiana, 228; Kunthiana depauperata, 228; media, 228
 Doronicum plantagineum, 590
 Dracopis amplexicaulis, 393
 Drosera, 442, 586
 Drynaria elongata, 201; nuda, 201; spectrum, 202
 Dryopteris, 183, 203; caryotideia, 204; conifolia, 203; cyatheoides, 204; **leucochaete**, 184; **lurida**, 183, 185; pubescens, 183
 Dryopterites Stephensoni, 572

 Eatonia nitida, 494
 Eddya hispidissima, 481
 Edosmia Gairdneri, 67
 Edward Lyman Morris, 599
 Elatinaceae, 612
 Elatine americana, 612
 Elatostema, 584
 ELLIS, M. M., ANDREWS, F. M., & Some observations concerning the relations of the leaf hairs of Salvinia natans, 441
 Emmenanthe foliosa, 478; penduliflora, 479; salina, 479; scopulina, 479
 Encalypta parasitica, 660
 Endophyllum, 361, 366; Sempervivi, 361, 365
 Endothia parasitica, 488
 Entodonaceae, 670
 Eorhamnidium, 573
 Epigaea repens, 493
 Epilobium adenocladium, 63; Drummondii latiusculum, 63; glaberrimum latifolium, 63; Hammondii, 63; juncundum, 63; **laevicaule**, 63, 64; **latiusculum**, 63; minutum, 63; Palmeri, 65; paniculatum, 63, 64; paniculatum subulata, 64; **platyphyllum**, 63; **Sandbergii**, 64; **subulatum**, 63, 64; Tracyi, 63
 Equisetum, 573
 Eremalche, 57
 Eremocarya muricata, 481
 Eremosis, 306; **ovata**, 331, 332; Palmeri, 332; Steetzii, 332; tarchonanthifolia, 332
 Ericaceae, 394
 Erigeron ramosus, 386, 387
 Eriodictyon angustifolium, 479
 Eryngium yuccaefolium, 387
 Erysiphe graminis, 513, 518
 Erythronium, 578
 Estherhaya, 119, 123
 Eucalyptus attenuata, 569; Geinitzi, 572; latifolia, 572; nervosa, 569; parvifolia, 569
 Eugenia, 573
 Eulophus, 67
 Eupatoria conyzoides, 306
 Eupatorium aromaticum, 496; coelestinum, 496; menthaefolium, 331; rotundifolium, 496; serotinum, 383
 Euphorbia Aliceae, 53; corollata, 390; Cyparissias, 502; exstipulata, 53; Parryi, 53; sp., 389
 Euphorbiaceae, 53
 Euphrasia mollis, 485
 EVANS, A. W., & HOOKER, H. D. JR. Development of the peristome in Ceratodon purpureus, 97
 Exidia truncata, 141, 164
 Exobasidium Andromedae, 164

 Fabaceae, 43
 Fagopyrum esculentum, 584
 Fagus, 394; grandifolia, 386, 387
 Ferns and flowering plants of Nantucket—XI., The, 605
 Ficus, 573; crassipes, 572, 573; daphnogenoides, 569, 571-573; inaequalis, 569, 571, 572; Krausiana, 571-573; lanceolato-acuminata, 569; Woolsoni, 569, 571, 572
 Fissidens asplenoides, 662; Barbaemontis, 662; costaricensis, 662; palmatus, 661; polypodioides, 661
 Fistulina hepatica, 166
 Flamaria, 127, 128; coccinea, 405
 Fontinalis, 653, 655; crispa, 656; disticha, 656; filicina, 656; filiformis, 657; hypnoides, 657
 Fouquieria, 16; splendens, 1, 16
 Four hybrids of Viola pedatifida, 249
 Fragaria elatior, 587
 Fraxinus nigra, 493; quadrangulata, 497; sp., 383, 392
 Fritillaria, 465, 578
 FROMME, F. D. The culture of cereal rusts in the greenhouse, 501
 Funaria hygrometrica, 97, 107
 Funkia, 579

 Galanthus nivalis, 582
 Galera tenera, 141, 161, 167; tenuissima, 161
 Galtonia candicans, 581

- Gaultheria procumbens, 493
 Gaura Michauxii, 383
 Gayophytum caesium, 65; **Helleri**, 65; lasiospermum, 65; racemosum, 65
 Geaster fimbriatus, 170
 Geinitzia formosa, 571, 572
 Gentiana artophila densiflora, 463; calycosa, 464; calycosa monticola, 464; calycosa stricta, 464; crinita, 493; detonsa, 463; glauca, 464; Macounii, 463; oregana, 464; procera, 589; tortuosa, 463; ventricosa, 463
 Gentianaceae, 463
 Gerardia, 119-122, 125, 129, 408; aphylla, 433; aphylla filicaulis, 438; aphylla grandiflora, 433; auriculata, 126, 128; cassioides, 407; cuneifolia, 127; decemloba, 434; dispersa, 411; divaricata, 437; erecta, 435; fasciculata, 426; filicaulis, 438; filifolia, 429; filifolia Gatesii, 431; flammea, 124, 127, 128, 405; flava, 120, 121, 125, 409; fruticosa, 127; georgiana, 427; glauca, 409; glutinosa, 120; Holmiana, 429; linifolia, 420; maritima, 421; maritima grandiflora, 421; maritima major, 421; Mettauerei, 438; Mettauerei clausa, 438; Mettauerei nuda, 438; microphylla, 432; nuda, 438; parvifolia, 436; pectinata, 414; pedicularia, 120, 121, 125, 128, 412; pedicularia pectinata, 414, 415; Plukenetii, 431; Plukenetii microphylla, 432; purpurea, 120-122, 125, 128, 422; purpurea crassifolia, 421; purpurea fasciculata, 426; purpurea grandiflora, 422; quercifolia, 409; racemulosa, 424; rupestris, 121; scabrosa, 121; setacea parvifolia, 436; setacea, 431; spiciflora, 421; tenuifolia, 403, 437; tenuifolia leptophylla, 403; tuberosa, 120, 121; virginica, 410
 Gilia aggregata arizonica, 472; aggregata Bridgesii, 472; arenaria, 472; arenaria rubella, 472; aristella, 475, 476; **arizonica**, 472; attenuata, 471, 472; Burleyana, 470; caespitosa, 473-475; candida, 471, 472; cephaloidea, 468-470; congesta, 468-471; congesta crebrifolia, 470; congesta iberidifolia, 469, 470; congesta nuda, 470; congesta palmifrons, 470; Crandallii, 473; crebrifolia, 469-471; **frutescens**, 471; globularis, 469, 470; gracilis, 475; gracilis eritrichoidea, 475; Hallii, 473; Haydeni, 473; Hookeri, 473, 474; **hutchinsifolia**, 472; iberidifolia, 468-471; inconspicua, 473; longiflora, 471; Merrillii, 469, 470; multiflora, 471, 473; nuda, 470; **palmifrons**, 470; pulchella, 471, 472; pungens, 473, 474; pungens squarrosa, 474; rigida, 475; roseata, 469, 470; scariosa, 472; sinister, 476; sinuata, 472, 473; spergulifolia, 469-471; spicata, 469, 471; spicata capitata, 468, 470; **straminea**, 472; subnuda, 473, 475; **tenuituba**, 472; trifida, 469-471; Tweedyi, 473
 Gladiolus, 583
 GLEASON, H. A. Studies on the West Indian Vernoniae, with one new species from Mexico, 305
 Gleditsia triacanthos, 383, 388, 392
 Gleichenia delicatula, 571
 Glycosma ambigua, 67; Bolanderi, 67; **maxima**, 67; occidentalis, 67
 Gnidia, 588
 Gomphidius glutinosus, 167
 GORTNER, R. A., & HARRIS, J. A. On a possible relationship between the structural peculiarities of normal and teratological fruits of Passiflora gracilis and some physico-chemical properties of their expressed juices, 27
 Gossypium, 588; herbaceum, 6, 9, 12, 22-26
 Graminales, 576
 Gramineae, 576
 Grammitis setigera, 194; tenella, 196
 Gratiola acuminata, 127; ebracteata, 484; fruticosa, 127
 Grewiopsis, 573
 GRIGGS, R. F. Observations on the geographical composition of the Sugar Grove flora, 487
 Gruvelia, 479; pusilla, 479; **setosa**, 479
 Guepinia helvelloides, 164; rufa, 164
 Gymnogramme sadlerioides, 227
 Haematoxylon, 661; campechianum, 657
 Hamosa **calycosa**, 50
 Harboursia, 68
 HARPER, R. M. A botanical cross-section of northern Mississippi, with notes on the influence of soil on vegetation, 377
 HARRIS, J. A. On the relationship between the number of ovules formed and the capacity of the ovary for maturing its ovules into seeds, 447
 HARRIS, J. A., GORTNER, R. A., & On a possible relationship between the structural peculiarities of normal and teratological fruits of Passiflora gracilis and some physico-chemical properties of their expressed juices, 27
 Helenium tenuifolium, 383, 386, 387
 Helianthemum canadense, 613; majus, 614; propinquum, 615
 Helianthus annuus, 1
 Helicodontium capillare, 668, 674
 Helleborus foetidus, 584
 Hemerocallis fulva, 577
 Hesperis matronalis, 585
 Heterocodon rariflorum, 485

- Hibiscus Moscheutos*, 608; *oculiroseus*, 608
Hicoria alba, 383, 390; *ovata*, 383, 392
Hieracium, 590; *paniculatum*, 494; *venosum*, 494
Holomitrium calycinum, 661
Homalia glabella, 664
Homalobus, 48, 51, 52; *aboriginum*, 50; *collinus*, 53; *debilis*, 53; *Dodgeanus*, 52; *episcopus*, 53; *exilifolius*, 52; *lancearius*, 52; *lingulatus*, 52; *miser*, 52; *simplicifolius*, 52; *strigosus*, 53
Homalocenchrus oryzoides, 390
Homalothecium Bonplandi, 673; *congestum*, 672
HOOKER, H. D., JR., EVANS, A. W., &. Development of the peristome in *Ceratodon purpureus*, 97
Hookeria diaphana, 663; *Carionis*, 668; *leskeoides*, 673
Hordeum distichon, 576
Hosackia, 45; *elata*, 46; *Purshiana*, 45
Houstonia coerulea, 589
Howellia aquatilis, 485
HOYT, W. D. Some toxic and antitoxic effects in cultures of *Spirogyra*, 333
Hudsonia tomentosa, 618; *ericoides*, 617, 618
Hyacinthus orientalis, 579
Hydnangium carneum, 141, 142, 169
Hydnum, 138; *repandum*, 140, 165
Hydrangea, 390; *arborescens*, 390, 496; *quercifolia*, 390
Hydrodictyon, 79, 80, 83-85
Hydroleaceae, 478
Hydrophyllum Watsonii, 478; *occidentale Watsonii*, 478
Hygrocybe miniata, 168
Hygrophorus agathosmus, 168; *ceraceus*, 142, 168; *conicus*, 142, 143, 168, 171; *lucorum*, 168
Hymenaea, 573
Hypericaceae, 608
Hypericum adpressum, 609; *adpressum spongiosum*, 609; *boreale*, 609, 611; *canadense*, 609-611; *dissimulatum*, 610, 611; *Drummondii*, 497; *majus*, 610, 611; *mutilum*, 610, 611; *perforatum*, 609; *punctatum*, 609
Hypholoma appendiculatum, 168; *fasciculare*, 168; *perplexum*, 143, 168; *sublateritium*, 168
Hypnum, 653, 673; *albans*, 663; *albicans*, 663; *asplenioides*, 662; *Bonplandi*, 673; *caespitosum*, 671; *calyptratum*, 671; *capillare*, 668; *cirrhosum*, 674; *compositum*, 667; *congestum*, 655, 672; *cuspidatum*, 654; *crispum*, 656; *densum*, 667; *depressum*, 669; *diaphanum*, 663; *fasciculatum*, 665; *flexile*, 666; *fulgens*, 662; *glabellum*, 664; *jamaicense*, 656; *loxense*, 671; *microphyllum*, 671; *nigrescens*, 666; *pallidum*, 663; *palmatum*, 661; *patulum*, 664; *poly-podioides*, 661; *polytrichoides*, 668; *pseudo-reptans*, 665; *pungens*, 672; *reptans*, 665; *spinaeforme*, 654; *Tamarisci*, 665, 666; *tenerum*, 675; *tetragonum*, 673; *tomentosum*, 669; *torquatum*, 674; *trichophyllum*, 669
Hypochnus Sambuci, 164; *subtilis*, 143, 164
Hypomyces rosellus, 139
Hypopitys lanulosa, 461; *latisquama*, 461
Hypopterygium brasiliense, 666; *pseudotamarisci*, 666; *Tamarisci*, 665
Iberis, 586
Ilex fastigiata, 613; *Masoni*, 571, 572; *opaca*, 393, 394, 495
Illiamna, 60; *acerifolia*, 60; *angulata*, 60; *rivularis*, 60
Impatiens biflora, 606
Index to American botanical literature, 35, 89, 131, 187, 243, 295, 373, 457, 523, 591, 647, 691
Influence of starch, peptone, and sugars on the toxicity of various nitrates to *Monilia sitophila* (Mont.) Sacc., The, 625
Inga cretacea, 571
Inocybe asterophora, 144; *trechispora*, 161
Iris, 583; *cristata*, 496
Is salinity a factor in the distribution of *Nereocystis Leutkeana*? 237
Isonema, 306; *ovata*, 306
Isopterygium tenerum, 675
Isopyrum bitermum, 497
Isothecium Bonplandi haitense, 673; *tetragonum*, 673
Isotria verticillata, 493
Itea virginica, 390

Juglans arctica, 571, 572; *nigra*, 389
Juncoides saltuensis, 493
Juncus aristulatus, 387; *effusus*, 387, 390
Jungermannites, 573
Juniperus virginiana, 383, 394

Kalmia Brittoniana, 571; *latifolia*, 494
Kentrophyta tegetaria, 52
KNUDSON, L. Observations on the inception, season, and duration of cambium development in the American larch [*Larix laricina* (DuRoi) Koch], 271
Koellia flexuosa, 387, 390; *incana*, 496
KUNKEL, O. The influence of starch, peptone, and sugars on the toxicity of various nitrates to *Monilia sitophila* (Mont.) Sacc., 625; The production of a promycelium by the aecidiospores of *Caecoma nitens* Burrill, 361

- Laburnum, 586
 Lactarius deliciosus, 168; piperatus, 168
 Lamiaceae, 481
 Lamium amplexicaule, 481
 Lappula erecta, 480
 Larix laricina (du Roi) Koch, Observations on the inception, season, and duration of cambium development in the American larch, 271
 Lathyrus graminifolius, 53; Nuttallii, 53; obovatus, 53; odoratus, 586
 Laurophyllum angustifolium, 573; nervil-
 losum, 571
 Laurus plutonia, 571, 572
 Lauterborniella, 78
 Lavatera, 588
 Leaf water and stomatal movement in
 Gossypium and a method of direct
 visual observation of stomata in situ, 1
 Lechea juniperina, 618; juniperina in-
 terior, 618; Leggettii, 619, 620; mari-
 tima, 618; minor, 618; moniliformis,
 619; racemulosa, 496, 620; villosa, 618
 Leguminosites, 573; omphaloboides, 571
 Lentodium squamulosum, 138
 Lenzites betulina, 138; flaccida, 166
 Lepidium virginicum, 383
 Lepidopilum diaphanum, 663; poly-
 trichoides, 668
 Lepiota cepaestipes, 168; lilacino-granu-
 losa, 168; mucida, 140, 168; naucina,
 143, 168
 Leptodactylon **brevifolium**, 474; eu-
 pungens, 473; Hallii, 473; Hookeri,
 474; pungens, 473, 474; caespitosum,
 474
 Leptotrichum capillifolium, 659; mexi-
 canum, 659; pseudo-rufescens, 659;
 rufescens, 659
 Lepyrodon, 670; trichophyllus, 669;
 trichophyllus robustior, 669
 Leskea albicans, 663; Bonplandi, 673;
 capillaris, 668; caespitosa, 671; con-
 gesta, 672; depressa, 669; flexilis, 666;
 glabella, 664; involvens, 674; pungens,
 672; remotifolia, 664; Tamariscina, 665
 Leucodon trichophyllus, 669
 Leucojum, 582
 LEVINE, M. Studies in the cytology of
 the Hymenomycetes, especially the
 Boleti, 137
 Liliaceae, 577
 Liliales, 577
 Lilium, 559, 580; Martagon, 557
 Limodorum abortivum, 583
 Linum intercursum, 613
 Liquidambar, 381, 394; Styracliflua, 383,
 385-389, 392, 495
 Liriodendron, 394, 585; Meekii, 572;
 Tulipifera, 385, 387, 389
 Liriodendropsis angustifolia, 569, 571,
 constricta, 571; simplex, 569, 571
 Listera, 583
 Lithospermum arvense, 481
 LLOYD, F. E. Leaf water and stomatal
 movement in Gossypium and a method
 of direct visual observation of stomata
 in situ, 1
 Loasaceae, 61
 Lobelia leptostachys, 496, 497; puberula,
 496
 Lobeliaceae, 485
 Lomatium platycarpum, 74
 Lotus, 45; americanus, 45; Macbridei, 45;
 sericeus, 45; tenuifolius, 45; tenuis, 45
 Lunaria, 586
 Lupinus aduncus, 44; argenteus argo-
 phyllus, 44; argentinus, 44; cytisoides,
 44; Kingii, 43; lepidus, 44; **lupinus**, 44;
 micensis, 44; minimus, 44; nootka-
 tensis, 44; oreophilus, 44; plumosus,
 44; rivularis, 44; Sileri, 43
 Lycoperdon caelatum, 170; excipuliforme,
 170; gemmatum, 170; pyriforme, 143,
 170
 Lycopodites, 573
 Lycopodium, 489, 491; clavatum, 489,
 493; complanatum, 489, 493; creta-
 ceum, 571; inundatum, 489; lucidulum,
 489, 493; lucidulum porophilum, 489,
 493; obscurum, 489, 493
 Lysias orbiculata, 493
 Lysimachia quadrifolia, 493
 MACKENZIE, K. K., Notes on Carex—
 VII., 539
 Macranthera, 119, 123, 124, 126, 127,
 401, 403-405; **flammea**, 124, 405;
 fuchsioides, 124, 126-128, 405; fuchsi-
 oides Lecontei, 405; Lecontei, 126, 128,
 405
 Macrocystis pyrifera, 239
 Macromitrium, 660; cirrhosum, 674
 Magnolia, 394, 585; alternans, 569; auri-
 culata, 569; Boulayana, 569, 571;
 Capellinii, 572; glauca, 395; glaucoides,
 569; Hollicki, 571; Lacoeana, 571;
 longifolia, 569; longipes, 571, 572;
 Newberryi, 569, 571; obtusata, 571;
 speciosa, 569, 571, 572
 Malapoenna, 573; cretacea, 572; falci-
 folia, 571
 Malva, 57; coccinea, 58; Creeana, 58;
 moschata, 608; rivularis, 60; rotundi-
 folia, 608; verticillata, 608
 Malvaceae, 57, 608
 Malvastrum, 57; angustum, 57; coc-
 cineum, 57, 58; coccineum dissectum,
 58; coccineum elatum, 58; coccineum
 grossulariaefolium, 58; Cockerellii, 59;
 digitatum, 59; dissectum, 59; dissectum
 Cockerellii, 59; elatum, 58; exile, 57;
 Fremontii, 57; grossulariaefolium, 57,
 58; leptophyllum, 59; Munroanum, 57,

- 58; rotundifolium, 57; spicatum, 57; Wrightii, 57
 Marasmius scorodoni, 168
 Marattia cretacea, 571
 Matricaria, 590
 Mecardonia acuminata, 127
 Medicago denticulata, 45; hispida, 45
 Meibomia laevigata, 390; Michauxii, 390
 Melampsora Lini, 509
 Melampyrum lineare, 493
 Melandrium rubrum, 584
 Melanthaceae, 577
 Melilotus alba, 383
 Menispermites, 573
 Mentzelia multiflora humilis, 61; multiflora integra, 61; Rusbyi, 61
 Mercurialis annua, 587
 Mertensia alpina, 481; coriacea, 481; brachycalyx, 481; lanceolata, 481; longiflora, 481; nutans, 481; perplexa, 481; pulchella, 481
 Merulius fugax, 141, 166; lacrymans, 139, 166; tremellosus, 159, 166
 Mesadenia tuberosa, 384
 Meteoropsis patula, 664
 Meteorium diversifolium, 664; aureonitense, 664; barbipendulum, 664; chiriquense, 665; cirrifolium, 664; flaccidum, 664; flexile, 666; nigrescens, 667; sericeum, 670; stellatum, 664; subambiguum, 665; tenue, 664; tetragonum, 673; torticuspis, 664
 Michenera artoceras, 138
 Micrampelis, 590
 Micranthes diffusa, 475
 Microtus, 45
 Micromeria Douglasii, 481
 Microphacos parviflorus, 51
 Microsteris gracilis, 475
 Microthamnium minusculum, 665; reptans, 665; Turckheimii, 665
 Miltitzia, 478, 479; foliosa, 478; salina, 479; scopulina, 479
 Mimulus cardinalis, 483, 484; Eastwoodiae, 483
 Mirabilis, 584
 Mississippi, A botanical cross-section of northern, with notes on the influence of soil on vegetation, 377
 Mitchellia repens, 390
 Mittenothamnium reptans, 665
 Mnium, 653, 656; hornum, 97, 107; sphaericarpon, 659; spiniforme, 654; strictum, 659; tomentosum, 658
 Monarda citriodora, 383, 393, 482; Nuttallii, 482; pectinata, 482
 Moniera rotundifolia, 484; sitophila, 625-639
 Monocotyledones, 576
 Monotropaceae, 461
 Morus indica, 583; rubra, 383, 389, 392
 MOTTIER, D. M., & NOTHNAGEL, M. The development and behavior of the chromosomes in the first or heterotypic mitosis of the pollen mother-cells of Allium cernuum Roth, 555
 Muciporus corticola, 166
 Musa, 583
 Musenium, 68; tenuifolium, 68, 69
 Mycena galericulata, 155, 168
 Myrica, 573; cerifera, 394; emarginata, 571-573
 Myrsine borealis, 569, 571, 573; Gaudini, 571, 572
 Myzorrhiza pinetorum, 485
 Naiadaceae, 576
 Naiadales, 576
 Naias marina, 576
 Nantucket, The ferns and flowering plants of—XI, 605
 Napaea dioica, 496, 497
 Narcissus, 583
 Neckera cirrhosa, 674; cochlearifolia, 666; composita, 667; crassa, 667; disticha, 656; filicina, 656; filiformis, 657; glabella, 664; hypnoidea, 657; jamaicense, 656; nigrescens, 666; polytrichoides, 668; quinquefaria, 673; tetragona, 673; torta, 674; trichophylla, 669; turgescens, 666; undulata, 656
 Neckeropsis, 656; disticha, 656; undulata, 656
 Negundo, 54; californicum, 54-56; fraxinifolium, 55; interius, 55, 56; Kingii, 55, 56; mexicanum, 55, 56; Negundo, 54, 55; Nuttallii, 54, 55; orizabense, 54, 55; texanum, 55, 56
 Nemacladus ramosissimus, 485
 Neottopteris, 206; Nidus, 206
 Nephrodium apifolium, 205; luridum, 183
 Nereocystis Luetkeana, 237-241
 Nereocystis Luetkeana, Is salinity a factor in the distribution of, 237
 New ferns from tropical America—II, 183; —III, 687
 Nidularia globosa, 170; pisiformis, 143, 156, 170
 Niphobolus linearis, 201
 Nitella, 341, 342, 346
 Note on the significance of sugar in the tubers of Solanum tuberosum, 110
 Notes on Carex—VII, 529
 Nothoscordum fragrans, 579
 Nuphar luteum, 584
 Nuttallia acuminata, 61, 62; humilis, 61; integra, 61; laevicaulis, 62; lobata, 61; multiflora, 61; pterosperma, 61; Rusbyi, 61
 Nyctalis asterophora, 141, 168; parasitica, 140, 168
 Nymphaea alba, 584
 Nyssa biflora, 394; Snowiana, 571; sylvatica, 392; uniflora, 392

- Observations on the geographical composition of the Sugar Grove flora, 487
- Observations on the inception, season, and duration of cambium development in the American larch (*Larix laricina* (DuRoi) Koch), 271
- Octoblepharum albidum*, 653, 654
- Oenothera*, 588; *alyssoides villosa*, 66; *biennis hirsutissima*, 66; *densiflora*, 62; *hirsutissima*, 66; *Hookeri*, 66; *Jamesii*, 65; *leptophylla*, 65; *longissima*, 65; *macroceles*, 65; *ornata*, 66; *pallida leptophylla*, 65; *salicina*, 62; *subulifera*, 66; *tenuissima*, 66
- On a possible relationship between the structural peculiarities of normal and teratological fruits of *Passiflora gracilis* and some physico-chemical properties of their expressed juices, 27
- On the relationship between the number of ovules formed and the capacity of the ovary for maturing its ovules into seeds, 447
- Onagra*, 588; *Oakesiana*, 66; *ornata*, 66; *strigosa subulata*, 66
- Onagraceae*, 62
- Onix*, 51; **Mulfordae**, 51
- Onoclea sensibilis*, 390; *Struthiopteris*, 643
- Orchidaceae*, 394
- Orchis*, 583
- Oreocarya Macounii*, 480; *multicaulis*, 480; *Palmeri*, 480; *pustulosa*, 480; *suffruticosa*, 480
- Oreodaphne*, 573
- Oreoxis*, 68, 70, 71, 73; **MacDougali**, 68
- Orobanchaceae*, 485
- Orthocarpus hispidus*, 484
- Orthostichopsis tetragona*, 673
- Orthothecium*, 670; *trichophyllum*, 670
- Orthotrichum polytrichoides*, 668
- Oryza sativa*, 576
- Osmorrhiza intermedia*, 66
- Otophylla*, 127, 128
- Ovostima*, 126, 128; *petiolata*, 126, 128
- Oxydendrum arboreum*, 491, 495
- Oxytropis Lambertii*, 53; *Lambertii Bigelovii*, 53; *plattensis*, 53
- Paeonia spectabilis*, 585
- Pagesia*, 127; *leucantha*, 127
- Palaeocassia laurinea*, 571
- Palamocladium Bonplandii*, 655, 673; *leskeoides*, 672, 673; *trichophyllum*, 670; *trichophyllum subtile*, 670
- Panax cretacea*, 571
- Panctenis*, 125, 128, 403, 408; *pectinata*, 414; *pedicularia*, 412
- Panecolus helvolus*, 161
- Panicularia acutiflora*, 494; *elongata*, 493; *pallida*, 493
- Panicum polyanthes*, 496; *scoparium*, 387, 390; *stipitatum*, 496
- Papillaria nigrescens*, 666; *nigrescens Donnellii*, 667
- Paris quadrifolia*, 579
- Parnassia caroliniana*, 493
- Parosela amoena*, 47; *Fremontii*, 47; *polydenia*, 47
- Parthenium argentatum*, 3
- Parthenocissus hirsutus*, 607; *quinquefolia*, 607
- Paspalum*, 383
- Passiflora coerulea*, 588; *gracilis*, 27-34; *lutea*, 495, 496
- Paxillus involutus*, 168
- Pectocarya*, 479; *miser*, 481; *penicillata*, 481; *setosa*, 479
- Pediastrum*, 84
- Pedicularioides*, 408
- Pedicularis centranthera*, 485; *flammea*, 485; *lanata*, 485; *lanceolata*, 498; *Oederi*, 485; *sylvestris*, 589
- Pelargonium*, 367-372; *Madam Salleri*, 368-371; *zonale*, 367
- Pelargonium*, A case of bud-variation in, 367
- Peltandra undulata*, 577
- Pelvetia*, 241
- Peniophora globulosa*, 161; *quercina*, 165
- PENNELL, F. W. Studies in the *Agalininae*, a subtribe of the *Rhinanthaceae*, 119, 401
- Pentstemon*, 127; *acuminatus*, 482; *albertinus*, 482; *azureus*, 483; *caespitosus*, 483; *collinus*, 482; *confertus*, 482; *Cusickii*, 482; *erianthera*, 483; *fruticosus*, 127; *glaber*, 483; *glaucus*, 482; *glaucus stenosepalus*, 482; *humilis*, 482, 483; *Kingii*, 483; **Leonardi**, 483; *Lewisii*, 127; *Macbridei*, 482; *miser*, 483; *nitidus*, 482; *Owenii*, 482; *pseudohumilis*, 482; *perpulcher*, 482; *pinetorum*, 482; *platyphyllus*, 483; *speciosus*, 483; *stenosepalus*, 482; *unilateralis*, 482, 483
- Peridermium Soraueri*, 509; *Strobi*, 502, 503, 509
- Permolles*, 315
- Persea valida*, 572
- Persoonia*, 573; *Lesquereuxii*, 571
- Peucedanum simplex*, 74; *triternatum leptophyllum*, 74; *triternatum platycarpum*, 74
- Phaca ampullaria*, 47; **artemisiarum**, 48; *collina*, 53; *Cusickii*, 47; *debilis*, 53; *jejuna*, 48; *leptalea*, 48; *mollissima utahensis*, 49; *parviflora*, 51; *pauciflora*, 48; *Preusii*, 47; *pubentissima*, 48; *sabulonum*, 47; *serpens*, 47; **sesquiflora**, 48; *simplicifolia*, 52; **Silerana**, 47; **subcinerea**, 47; **Wardii**, 47
- Phacelia affinis*, 479; *bicolor*, 479; *crenulata*, 479; *demissa*, 479; *dubia*, 495; *glandulifera*, 479; *glechomaeifolia*, 479;

- hispida*, 479; *humilis*, 479; *integrifolia*, 479; *luteopurpurea*, 479; ***orbicularis***, 479; *Palmeri*, 479; *pinetorum*, 479; *pusilla*, 479; *ramosissima*, 479
Phacopsis scaphoides, 52
Phallus impudicus, 169
Phascum, 653
Phaseolites formus, 571, 572
Phaseolus, 586; *vulgaris*, 449, 454
Phellopterus, 73
Philibertella cynanchoides, 466; *heterophylla*, 466
Philonotis sphaericarpa, 659
Phippsia algida, 686
Phlebia, 138
Phlebodium, 202
Phlox aculeata, 468; *albomarginata*, 467; *alyssofolia*, 467; *alyssoides*, 467, 468; *austromontana*, 468; *austromontana prostrata*, 468; *bryoides*, 467; *caespitosa*, 467, 468; *collina*, 467, 468; *condensata*, 467; *costata*, 467; *Covillei*, 467; *dasyphylla*, 468; *densa*, 468; *diapsyoides*, 467; *Douglasii*, 468; *glabrata*, 467, 468; *Hoodii*, 467; *Hoodii glabrata*, 468; *Hookeri*, 474; *Kelseyi*, 467; *multiflora*, 467, 468; *muscoideis*, 466, 467; *Stansburyi*, 468; *stolonifera*, 495; *variabilis*, 467, 468; *viridis*, 468
Pholiota lucifera, 168; *praecox*, 143-149, 169, 173
Phragmidium obtusum, 509; *Rosae-alpinae*, 504, 509
Phyllites, 573
Phyllogonium aureum, 662; *fulgens*, 662, 663; *globitheca*, 662; *immersum*, 663; *Serra*, 663; *viride*, 662, 663
Phymatodes, 201; *elongata*, 201; *Spectrum*, 201, 202
Phymosia, 60; ***acerifolia***, 60; ***Crandallii***, 60; ***grandiflora***, 60; ***longisepala***, 61; ***rivularis***, 60
Physostegia sp., 387
Phytogeographical notes on the Rocky Mountain region—I. Alpine region, 677
PICARD, M. A bibliography of works on meiosis and somatic mitosis in the angiosperms, 575
Picea Engelmannii, 684
PICKETT, F. L. The development of the embryo-sac of *Arisaema triphyllum*, 229; Resistance of the prothallia of *Camptosorus rhizophyllus* to desiccation, 641
Pilotrichella eroso-mucronata, 666; *flexilis*, 666; *recurvo-mucronata*, 666; *tetragona*, 673
Pilotrichum densum, 667; *compositum*, 667; *filicinum*, 656; *hypnoides*, 657
Pinnulaceae, 461
Pinus aristata, 684, 685; *echinata*, 382, 385, 386-390; *palustris*, 394; *raritanensis*, 572; *rigida*, 291, 494; *sylvestris*, 271, 272; *Taeda*, 381, 382, 387; *virginiana*, 495
Piperites, 573
Pirella filicina, 656
Pisum, 586
Plagiobotrys arizonicus, 481
Planera aquatica, 392
Plantago aristata, 383, 387, 389
Platanus, 573; *latior*, 572; *occidentalis*, 383, 385-389, 392
Pleopeltis linearis, 201; *nuda*, 201; *spectrum*, 202; *Thunbergiana*, 201
Pleuropus, 655; *congestus*, 655, 672; *leskeoides*, 673
Pluteus cervinus, 169
Podophyllum peltatum, 585
Podozamites, 568; *marginatus*, 573
Pogonatum convolutum, 657; *tortile*, 657; *urnigerum*, 654
Polemonium californicum, 477; *coeruleum*, 477; ***columbianum***, 477; *delicatum*, 476, 477; *Grayanum*, 478; *Haydenii*, 477; ***intermedium***, 478; *mellitum*, 478; *mexicanum*, 477; *montrosense*, 477; *occidentale intermedium*, 478; *parvifolium*, 476, 477; *pilosum*, 477; *pulcherrimum*, 477; *scopulinum*, 477, 478; *speciosum*, 477; *Tevisii*, 477; *tricolor*, 476; *viscosum*, 477, 478
Polemoniaceae, 466
Polygonum arifolium, 493
Polypodium abietinum, 194, 200; *Adenophorus*, 194, 198; *aureum*, 202; *cicutarium*, 205; *Gaudichaudii*, 194; *glabrum*, 195; *Haaliliolanum*, 194, 197; *hawaiiense*, 198, 199; *hawaiiense opacum*, 199; *Helleri*, 198, 199; *Hillebrandii*, 194, 200; *Hookeri*, 193, 194; *hymenophylloides*, 194, 199; *Kaulfussii*, 196; *Knudsenii*, 193, 195, 196; *leiopteris*, 201; *lineare*, 201; *Lonchitis*, 203; *minimum*, 197; *myriocarpum*, 198, 199; *pellucidum*, 194, 198, 199; *Pseudogrammitis*, 193, 196; ***pumilum***, 193, 195, 196; *Saffordii*, 194, 197; *samoense*, 195; *samoense glabra*, 195; *sarmentosum*, 194, 197; *serrulatum*, 197; *serrulatum lata*, 197; *sessilifolium*, 195; *setigerum*, 194; *Spectrum*, 201; *subpinnatifidum*, 197; *tamariscinum*, 194, 200; *tamariscinum abietinum*, 200; *Thouinianum*, 201; *trifoliatum*, 205; *tripinnatifidum*, 200; *unisorum*, 227; *vulgare*, 193, 198; *zosteræforme*, 201
Polyporus acanthoides, 166; *adustus*, 146, 150, 166, 174; *annosus*, 141, 166; *betulinus*, 146, 150, 166, 174, 178; *brumalis*, 159, 166; *destructor*, 146, 150, 166, 174, 179; *fumosus*, 138;

- lucidus, 159, 166; versicolor, 140, 146, 150, 167, 174
- Polystichum*, 202, 203; *acrostichoides*, 390; *aristatum*, 203; *carvifolium*, 203; *coniifolium*, 203; *decoratum*, 689; *falcatum*, 205; *haleakalense*, 203; *Hillebrandii*, 203, 204; *ilicifolium*, 689; *machaerophyllum*, 688-690; *triangulum*, 689
- Polystictus conchifer*, 138; *versicolor*, 138
- Polytaenia Nuttallii*, 384
- Polytrichum*, 653; *convolutum*, 657; *crispulum*, 657; *cubense*, 657; *domingense*, 657; *glaucinum*, 657, 658; *Husnotianum*, 657; *laxifolium*, 658; *obscurum-viridis*, 658; *Plecanum*, 658; *Sintenisii*, 658; *tortile*, 657, 658
- Populites*, 573
- Populus apiculata*, 569; *deltoides*, 383-389, 392, 394; *heterophylla*, 383, 490; *hyperborea*, 572; *tremuloides*, 498
- Poria*, 143, 167; *incrustans*, 138
- Porotrichum fasciculatum*, 665
- Porteranthus stipulatus*, 496, 497
- Potamogeton*, 686; *foliosus*, 576
- Potentilla*, 587
- Primula*, 586; *americana*, 462; *farinosa*, 462; *incana*, 462; *specuicola*, 461, 462
- Prionodon densus*, 667
- Production of promycelium by the acidiospores of *Caecoma nitens* Burrill, The, 361
- Proteoides*, 573; *daphnogenoides*, 569
- Protodammara speciosa*, 571
- Protophyllocladus subintegrifolius*, 572
- Prunus angustifolia*, 383, 385, 387, 389
- Psalliotia bisporigera*, 169; *campestris*, 139, 169; *pratensis*, 169
- Psathyra spadiceo-grisea*, 141, 169
- Psathyrella consimilis*, 161; *crenata*, 169; *disseminata*, 169; *gracilis*, 161
- Pseudocymopterus*, 70; *aletifolius*, 70-72; *anisatus*, 70-72; *bipinnatus*, 70-73; *Hendersonii*, 70; *montanus*, 70-72
- Pseudopteryxia***, 71; ***aletifolia***, 72; ***anisata***, 71, 72; ***longiloba***, 72
- Pseudoreoxis***, 73; ***bipinnatus***, 73; ***nivalis***, 73
- Psoralea juncea*, 47; *lanceolata*, 46; *micrantha*, 46; *obtusiloba*, 47; *Onobrychis*, 497; *pedunculata*, 390; *Purshii*, 46; *stenophylla*, 46; *stenostachys*, 46
- Pteridium aquilinum*, 390
- Pteridophytes of the Hawaiian Islands—III*, A taxonomic study of the, 193
- Pterigynandrum aureum*, 673; *fulgens*, 662; *quadrifarium*, 673
- Pterobryum filicinum*, 656
- Pterogonium fulgens*, 662; *nigrescens*, 666
- Pterospermites carolinensis*, 571, 572; *modestus*, 569
- Pterygophyllum albicans*, 663; *diaphanum*, 663
- Pteryxia*, 70
- Puccinia Acetosae*, 509; *Aspargi*, 508; *Caricis-filicinae*, 509; *Chrysanthemi*, 504, 509; *coronata*, 503, 505-508; *cornifera*, 504, 506, 510-519; *dispersa*, 502-508, 518; *flosculosorum*, 509; *glumarum*, 503, 503, 507; *Helianthi*, 505, 508; *Peckiana*, 364-366; *Prenanthis*, 509; *rubigo-vera*, 503, 508; *simplex*, 504; *Sorghii*, 505, 506, 508
- Pungentella pungens*, 672
- Pyrola elliptica*, 493; *rotundifolia*, 493
- Quamasia hyacinthina*, 497
- Quercus alba*, 383-388, 390; *coccinea*, 390; *falcata*, 383, 385-388, 390, 394; *lyrata*, 383, 389, 392; *marylandica*, 383, 385, 388, 390, 394, 395; *Michauxii*, 387-389, 392; *minor*, 496; *nigra*, 383, 387, 389, 392; *pagodaefolia*, 383, 392; *Phellos*, 381, 383, 386, 387, 392; *Prinus*, 494; *stellata*, 383, 385-388, 390, 394; *texana*, 392; *velutina*, 389
- Radulum tomentosum*, 138
- Ranunculus*, 686
- Ratibida pinnata*, 383
- Resistance of the prothallia of *Camptosorus rhizophyllus* to desiccation, 641
- Rhacopilum tomentosum*, 669
- Rhamnaceae*, 57
- Rhamnus betulaeifolia*, 57; *tenax*, 571
- Rhaphidostegium caespitosum*, 671
- Rheum undulatum*, 584
- Rhexia lanceolata*, 387
- Rhinanthaceae*, Studies in the *Agalininae*, a subtribe of the, 119
- Rhinanthus virginicus*, 125, 409
- Rhizogonium spiniforme*, 653, 654
- Rhododendron maximum*, 494
- Rhus copallina*, 387; *glabra*, 383-390; *radicans*, 392; *sp.*, 383, 387
- Rhysopterus*, 70
- Ribes*, 502, 587
- Richardia africana*, 577
- RIGG, G. B. Is salinity a factor in the distribution of *Nereocystis Luetkeana*? 237
- Robinia*, 449; *Pseudacacia*, 385, 387, 389
- ROBINSON, W. J., A taxonomic study of the Pteridophyta of the Hawaiian Islands—III, 193
- Rosa*, 587; *carolina*, 390
- Rubus*, 587; *frondosus*, 361, 362; *odoratus*, 494
- Rudbeckia hirta*, 386, 387, 389
- Ruellia rupestris*, 121
- Rulac*, 54; *californica*, 56; *californica texana*, 54; *Kingii*, 56; *mexicana*, 56; *Nuttallii*, 54, 56; *texana*, 56

- Rumex* sp., 383; *Patientia*, 584
Russelia flammea, 127, 405
Russula integra, 169; *lepidia*, 169; *rubra*, 140, 169
 RYDBERG, P. A. Phytogeographical notes on the Rocky Mountain region. I. Alpine region, 677; Studies on the Rocky Mountain flora—XXVIII, 43; —XXIX, 461
Rynchospora glomerata, 494

Sabal glabra, 392
Saccharum officinarum, 576
Sadleria, 224; *cyatheoides*, 225–227; **Hillebrandii**, 225; *pallida*, 226; *polystichoides*, 225, 227; *Souleytiana*, 225; *squarrosa*, 227; *squarrosa depauperata*, 227; **unisora**, 225, 227
Sagentia apiifolia, 205
Sagittaria latifolia, 576
Salix, 686; *amygdaloides*, 498; *flexuosa*, 571–573; *Lesquereuxii*, 571–573; *nigra*, 381, 383, 385–389, 392
Salomonina biflora, 582
Salvia Columbariae, 482
Salvinia, 441–445; *natans*, 441; Some observations concerning the reactions of the leaf hairs of, 441
Sambucus canadensis, 383, 385–387, 389, 390, 392; *nigra*, 589; *pubens*, 494
Sanguinaria, 449
Sapindus, 573
Sapotacites, 573
Sarothra gentianoides, 612
Sassafras, 394; *acutifolium*, 572; *varifolium*, 383, 385, 389
Saururus cernuus, 387, 390, 393
Saxifraga, 686; *pennsylvanica*, 498; *virginensis*, 494
Scenedesmus, 76–85; *acutus*, 76–78, 86
Schizaea pusilla, 496
Schizophyllum commune, 139
Schlotheimia cirrosa, 674; *pellucida*, 674; *torquata*, 674; *torta*, 674; *undatorugosa*, 674
Scilla non-scripta, 579; *sibirica*, 579
Scirpus Eriophorum, 386
Scleroderma vulgare, 142, 170
Scopulicola, 69
Scorpioideae aggregatae, 328
Scorophulariaceae, 482
Scutellaria galericulata, 497, 498
Sebacina effusa, 164; *quercina*, 164
Secale cereale, 576
Selenastrum, 78
Sematophyllum caespitosum, 671; *pungens*, 672
Senecio vulgaris, 502
Sequoia ambigua, 573; *fastigiata*, 573; *gracillima*, 569; *heterophylla*, 569, 571, 573; *Reichenbachii*, 569, 570, 572, 573
Sericocarpus asteroides, 494
Seymeria, 119, 122, 125, 127; *heterophylla*, 406; *Jacksoni*, 406; *macrophylla*, 123, 124, 126, 127; *pectinata*, 406; *tenuifolia*, 407
Sida coccinea, 58; *dissecta*, 58; *grossulariaefolia*, 58; *rotundifolia*, 495
Silphium, 590; *laciniatum*, 383, 384; *perfoliatum*, 384; *terebinthinaceum*, 383, 384
Silvia, 119
Sisymbrium, 586
Sitilias caroliniana, 387
Skitophyllum asplenioides, 662; *palmatum*, 661; *polypodioides*, 661
 SLOSSON, M. New ferns from tropical America—II, 383; III, 687
Smilax ecirrhata, 497; *glauca*, 383
 SMITH, G. M. *Tetrademus*, a new four-celled coenobitic alga, 75
Solanum tuberosum, 589; A note on the significance of sugar in the tuber of, 110
Solidago erecta, 496; *junceae*, 498; sp., 383
 Some observations concerning the reactions of the leaf hairs of *Salvinia natans*, 441
 Some toxic and antitoxic effects in cultures of *Spirogyra*, 333
Sorghum halepense, 383, 385–387, 389, 393
Sparassis crispa, 165
Sparganium hypoboreum, 686; *minimum*, 686
Sphaeralacea, 58, 60; *acerifolia*, 60; *ambigua*, 59; **arizonica**, 59; **coccinea**, 58; *Crandallii*, 60; **digitata**, 58; **dissecta**, 58; **elata**, 58; *grandiflora*, 60; **grossulariaefolia**, 58; **leptophylla**, 59; *longisepala*, 61; *marginata*, 59; *Munroana*, 60; *pedata*, 58; *pedata angustiloba*, 58; *rivularis*, 60; **subrhomboidea**, 59
Sphaerites, 573
Sphaeroplea, 79
Sphaerostigma alyssoides macrophyllum, 66; **macrophyllum**, 66
Sphagnum, 653
Spirodela polyrrhiza, 390
Spirogyra, 335–358, 625; *longata*, 333, 350; Some toxic and antitoxic effects in cultures of, 333
Splachnum, 653
Sporobolus indicus, 383
Stachys cordata, 495
Staphylea, 448, 449
Stenandrium, 121; *rupestre*, 121
Stenophragma, 586
Stereohypnum reptans, 665
Stereum purpureum, 139
 STROUT, A. B. A case of bud-variation in *Pelargonium*, 367

- Strobilomyces strobilaceus*, 155, 160, 166
Stropharia melasperma, 141, 169; semi-globata, 169; *stercoraria*, 159, 169
 Studies in the Agalinanae, a subtribe of the Rhinanthaceae, 119, 401
 Studies in the cytology of the Hymenomyces, especially the Boleti, 137
 Studies on the Rocky Mountain flora—XXVIII, 43; XXIX, 461
 Studies on the West Indian Vernoniaeae, with one new species from Mexico, 305
Stylosanthes biflora, 496
Sullivantia Sullivantii, 497
Swertia Fritillaria, 465
Symplocarpus foetidus, 229, 232, 577
Syntherisma sanguinalis, 383
Syringa, 589
Syrrhopodon, 661; *lycopodioides*, 660; *parasiticus*, 660

Tanacetum vulgare, 590
Tarachia polyphylla, 216
Taraxacum, 590
Taxodium, 388, 394; *distichum*, 273, 381, 387, 389, 392, 393; *imbricarium*, 394, 395
 Taxonomic study of the Pteridophyta of the Hawaiian Islands—III, A, 193
Tecoma radicans, 383, 386, 389, 392
Tectaria, 205; *cicutaria*, 205
Tetrademus, 76–80, 82, 84; *wisconsinensis*, 76, 77, 86
Tetrademus, a new four-celled coenobitic alga, 75
Teucrium, 390
Thalesia minuta, 485; *purpurea*, 485; *Sedi*, 485
Thalictrum purpurascens, 584
Thamnum fasciculatum, 665
Thamnopteris Nidus, 206
Telephora anthocephala, 165; *palmata*, 165
Thermopsis montana, 43; *montana ovata*, 43; *ovata*, 43; *xyloirrhiza*, 43
Thuidium involens, 674; *microphyllum*, 671
Thuja occidentalis, 490
Tillandsia, 394
Tium arrectum, 49; *atropubescens*, 49; *eremiticum*, 49
Tomanthera, 126, 128; *lanceolata*, 126, 128
Tomilix, 126, 128; *bracteata*, 405
Tortula agraria, 659; *linearis*, 675
Touterea humilis, 61; *integra*, 61; *Rusbyi*, 61
Toxopus, 126, 128; *calycinus*, 405; *gymnanthes*, 405
Toxylon pomiferum, 383
Tradescantia virginiana, 577
Tragacantha Watsoniana, 49
Tragopogon pratensis, 590

Tremella Genistae, 141, 164; *mesenterica*, 140
Triadenum virginicum, 612
Tricalycites papyraceus, 569, 573, 571
Trichomanes rhipidophyllum, 687, 690; *sphenoides*, 688
Trichostema dichotomum, 496, 497
Trichostoma oblongum, 481
Trichostomum, 675; *lineare*, 675; *pallidum strictum*, 659; *strictum*, 659; *tortile*, 100
Tricyrtis, 581
Trifolium cyathiferum, 45; *eriocephalum*, 45; *macrocephalum*, 45; *plumosum*, 45; *reflexum*, 496, 497; *Rusbyi*, 45; *spinulosum*, 45
Trigonella americana, 45; *sericea*, 45
Trillium, 582
Triphysaria hispida, 484
Tripsacum dactyloides, 383, 386, 387, 389
Triticum vulgare, 576; *Secale cereale*, 576
Trollius europaeus, 584; *laxus*, 494
Tropaeolum majus, 587
Tsuga canadensis, 492, 494; *caroliniana*, 494
Turckheimia guatemalensis, 675; *linearis*, 675
Typha latifolia, 383, 386, 387

Ulmus alata, 381, 383, 387, 392; *americana*, 392; *sp.*, 389
Ulothrix, 342
Unifolium canadense, 494
Uredo Bupleuri, 509; *Gomphrenatis*, 509
Uromyces Pisi, 502, 509; *Veratri*, 502; *Vossiae*, 509
Urtica dioica, 584

Vagnera, 582
Valeriana pauciflora, 497
Veratrum Woodii, 497
Verbena ambrosifolia, 481; *bipinnatifida*, 481; *canadensis*, 481; *ciliata*, 481; *Gooddingii*, 481; *remota*, 481
Verbenaceae, 481
Vernonia, 305, 306, 325, 328; *aceratoides*, 321, 325; *acuminata*, 305, 310, 311, 314; *albicaulis*, 325–327; *albicoma*, 310, 311, 314; *amaranthina*, 307, 308; *angustata*, 308, 309; *araripensis*, 308; *arborescens*, 307, 308; *arctata*, 326; *aronifolia*, 321, 323; *bahamensis*, 326; *buxifolia*, 327; *calida*, 315, 318; *calophylla*, 315, 317; *chinensis*, 306; *complicata*, 326; *corallophila*, 308, 309; *cubensis*, 330; *desiliens*, 315, 316; *divaricata*, 310, 314; *expansa*, 310, 311, 314; *fallax*, 321, 324; *fruticosa*, 305, 314, 315, 320; *gnaphaliifolia*, 308, 310, 318; *Grisebachii*, 331; *havanensis*, 328, 329; *hieracioides*, 339; *icosantha*, 307; *inaequiserrata*, 320, 321; *inae-*

- quiserrata angustifolia, 320, 325; leptoclada, 320, 321, 323; longifolia, 326; menthaefolia, 331; montana, 327; **neglecta**, 315, 318; **orientis**, 329, 330; Ottonis, 305, 328, 329, 330; pallescens, 329; **pluvialis**, 312, 314; **proclivis**, 312, 314; **purpurata**, 321, 322; **reducta**, 313, 314; rigida, 314, 320; Sagraeana, 320, 321, 323; **segregata**, 327, 328; **semitalis**, 315, 319; Sintenisii, 305; sp., 383; Sprengeliana, 320, 321; stenophylla, 308, 309; stictophylla, 329; sublanata, 305, 310; sublanata angustata, 309; Thomas, 305, 325, 327; Tuerckheimii, 305, 327; Valenzuelana, 320-322; **vicina**, 315, 317; viminalis, 320, 321; Wrightii, 305, 318, 320, 321; yunquensis, 315, 327
 Vernoniaeae, Studies on the West Indian, 305
 Veronica arvensis, 484; Buxbaumii, 484; peregrina, 484; xalapensis, 484
 Viburnum dentatum, 498; molle, 498
 Vicia Faba, 586
 Viola affinis, 262, 263, 268, 270, 621; Bernardi, 259; blanda, 262, 624; cucullata, 264-270, 621; domestica, 269, 270; fallacissima, 259; fimbriatula, 622, 623; fimbriatula \times obliqua, 623; hirsutula, 495; indivisa, 252; laetecae-rulea, 266, 269, 270, 621; lanceolata, 621, 623; nephrophylla, 259; **nephrophylla** \times **pedatifida**, 259; obliqua, 261-270, 621-623; odorata, 623; pallens, 623, 624; palmata, 252, 259; papilionacea, 250-255, 260, 264-270, 621; **papilionacea** \times **pedatifida**, 249-256, 259, 260; pedata, 620, 622; pedatifida, 249-260; **pedatifida** \times **sagittata**, 252, 260; **pedatifida** \times **sororia**, 253-260; perpensa, 259; pratincola, 254; primulifolia, 623, 624; rostrata, 494; rotundifolia, 262, 494; sagittata, 252, 253, 260, 622, 623; sororia, 254-260, 265, 266, 270; Wilmattae, 259
 Viola obliqua Hill and other violets, 261
 Viola pedatifida, Four hybrids of, 249
 Violaceae, 620
 Virgularia, 122, 123; lanceolata, 122
 Viscum album, 584
 Vitaceae, 606
 Vitis aestivalis, 607; Labrusca, 606, 607
 Vuilleminia comedens, 164
 Washingtonia intermedia, 66
 Weisia calycina, 661
 West Indian mosses—I, 653
 Wickstroemia indica, 588
 Widdringtonites Reichii, 569, 571, 573; subtilis, 571, 573
 Xanthium sp., 383
 Xylophacos, 48; **argophyllus**, 49; **cibarius**, 48; **consectus**, 49; **cuspidocarpus**, 48; **cymboides**, 49; **inflexus**, 49; **musinensis**, 49; **puniceus**, 48; **utahensis**, 49; **Watsonianus**, 49; **Zionis**, 48
 Xyridales, 577
 Yucca, 581
 Zea Mais, 576
 Zizyphus lamarensis, 571
 Zostera, 586; marina, 576